AMENDMENTS TO THE CLAIMS

1. (previously presented) A method of correcting the radial runout variation across the peripheral surface of the tread lugs of a tire; comprising the steps of:

locating the tire's center axis;

measuring a plurality of radial points in different locations about a circumference of the tire in each of several circumferential planes located between the tread shoulders; wherein the circumferential planes correspond to tread lugs;

determining a radial low point from the plurality of radial points in different locations for each circumferential plane;

determining a virtual tread profile from the radial low points; and engaging a tread removal means to remove tread rubber to match the tread profile to the virtual tread profile.

- 2. (original) The method of claim 1 wherein the measurements are taken in at least three circumferential planes.
- 3. (previously presented) The method of claim 1 wherein the measurements are taken in at least five circumferential planes.
- 4. (previously presented) The method of claim 1 wherein the virtual tread profile is asymmetrical.
- 5. (previously presented) The method of claim1 further includes controlling the movement of the tread removal means by directing the movements to follow the virtual tread profile.
- 6. (original) The method of Claim 1 further includes controlling the rotational movement of the tire as the tread removal means traverses across the tread.

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7. (currently amended) An apparatus for measuring a tire tread profile and truing said tire comprises

a base having linear bearing guide rails for directing movement in an X direction parallel to the axis of the tire to be measured and trued;

a profile measuring device mounted on a movable sled, the sled having linear bearings attached to the guide rail bearings;

a device for measuring a plurality of radial points in different locations about a circumference of the tire in each of several circumferential planes located between the tread shoulders; wherein the circumferential planes correspond to tread lugs;

calculation means for determining a radial low point from the plurality of radial points in different locations for each circumferential plane and then determining a virtual tread profile from the radial low points

a truing device assembly mounted on a movable carriage, the carriage having linear bearings attached to the guide rail bearings; and a tire rotation device.

- 8. (original) The apparatus of claim 7 further comprises: an electronic control system including a computer and software for compiling measurement data and establishing a virtual template to true the tire; the control system directs the movement of the truing device assembly.
- 9. (previously amended) The apparatus of claim 7 wherein the truing device assembly includes a truing cutter, truer device assembly having a Y direction movable carriage mounted to the X direction movable sled.
- 10. (original) The apparatus of claim 9 wherein the truer cutter includes a Z axis pivot system.

This listing of claims will replace all prior versions and listings of claims in the application.